

IN THE CLAIMS

Please amend and consider the claims as follows:

1. (Currently Amended) A method for estimating jitter in a phase locked loop, comprising:

obtaining a representative power supply waveform having noise;

digitizing the representative power supply waveform having noise;

inputting ~~at~~ the digitized representative power supply waveform having

noise into a simulation of the phase locked loop, ~~wherein the noise~~

~~is incident to supplying power to the phase locked loop; and~~

estimating jitter of the phase locked loop from the simulation.

2. (Original) The method of claim 1, wherein the representative power supply waveform is obtained from a physical system.

3. (Original) The method of claim 2, wherein the physical system comprises a printed circuit board.

4. (Original) The method of claim 2, wherein the physical system comprises a chip package.

5. (Original) The method of claim 2, wherein the physical system comprises a chip.

6. (Original) The method of claim 1, wherein the representative power supply

waveform is obtained from a location on a physical system adjacent to an intended location of the phase locked loop.

7. (Original) The method of claim 1, wherein the representative power supply waveform is obtained from a simulation of a power supply.

8. ¹¹ (Previously Amended) A method for estimating jitter in a phase locked loop, comprising:

inputting a representative power supply waveform having noise into a simulation of the phase locked loop; and
estimating jitter of the phase locked loop from the simulation,
wherein the representative power supply waveform is obtained from a simulation of a power supply,
wherein the simulation of the power supply is performed using a first simulation tool and the simulation of the phase locked loop is performed using a second simulation tool.

9. (Original) The method of claim 1, wherein the representative power supply waveform comprises a noise waveform combined with a power supply waveform.
10. (Original) The method of claim 1, wherein the representative power supply waveform is dependent on at least one selected from the group consisting of temperature, voltage, frequency, and manufacturing process.

41. (Original) The method of claim 1, wherein the simulation of the phase locked loop is dependent on at least one selected from the group consisting of temperature, voltage, frequency, and manufacturing process.

12. (Currently Amended) A computer system for estimating jitter in a phase locked loop, comprising:

a processor;

a memory; and

software instructions stored in the memory adapted to cause the computer system to:

obtain a representative power supply waveform having noise;

digitize the representative power supply waveform having noise;

input the digitized representative power supply waveform having

noise into a simulation of the phase locked loop, ~~wherein~~

~~the noise is incident to supplying power to the phase locked~~

~~loop;~~ and

estimate jitter of the phase locked loop from the simulation.

13. (Original) The computer system of claim 12, wherein the representative power supply waveform is obtained from a physical system.

14. (Original) The computer system of claim 13, wherein the physical system

comprises a printed circuit board.

15. (Original) The computer system of claim 13, wherein the physical system comprises a chip package.

16. (Original) The computer system of claim 13, wherein the physical system comprises a chip.

17. (Original) The computer system of claim 12, wherein the representative power supply waveform is obtained from a location on a physical system adjacent to an intended location of the phase locked loop.

18. (Original) The computer system of claim 12, wherein the representative power supply waveform is obtained from a simulation of a power supply.

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19. (Currently Amended) ~~The computer system of claim 18,~~ A computer system for estimating jitter in a phase locked loop, comprising:

a processor;

a memory; and

software instructions stored in the memory adapted to cause the computer

system to:

input a representative power supply waveform having noise into a

simulation of the phase locked loop; and

estimate jitter of the phase locked loop from the simulation;
wherein the representative power supply waveform is obtained
from a simulation of a power supply, and
wherein the simulation of the power supply is performed using a
first simulation tool and the simulation of the phase locked
loop is performed using a second simulation tool.

20. (Original) The computer system of claim 12, wherein the representative power supply waveform comprises a noise waveform combined with a power supply waveform.
21. (Original) The computer system of claim 12, wherein the representative power supply waveform is dependent on at least one selected from the group consisting of temperature, voltage, frequency, and manufacturing process.
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~~22.~~ (Original) The computer system of claim 12, wherein the simulation of the phase locked loop is dependent on at least one selected from the group consisting of temperature, voltage, frequency, and manufacturing process.
23. (Currently Amended) A computer-readable medium having recorded thereon instructions executable by a processor, the instructions adapted to:
- obtain a representative power supply waveform having noise;
digitize the representative power supply waveform having noise;

input ~~at~~ the digitized representative power supply waveform having noise
into a simulation of a phase locked loop, ~~wherein the noise is~~
~~incident to supplying power to the phase locked loop;~~ and
estimate jitter of the phase locked loop from the simulation.

24. (Original) The computer-readable medium of claim 23, wherein the representative power supply waveform is obtained from a physical system.
25. (Original) The computer-readable medium of claim 24, wherein the physical system comprises a printed circuit board.
26. (Original) The computer-readable medium of claim 24, wherein the physical system comprises a chip package.
27. (Original) The computer-readable medium of claim 24, wherein the physical system comprises a chip.
28. (Original) The computer-readable medium of claim 23, wherein the representative power supply waveform is obtained from a location on a physical system adjacent to an intended location of the phase locked loop.
29. (Original) The computer-readable medium of claim 23, wherein the representative power supply waveform is obtained from a simulation of a power supply.

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(Currently Amended) ~~The computer-readable medium of claim 29,~~ A computer-readable medium having recorded thereon instructions executable by a processor, the instructions adapted to:

input a representative power supply waveform having noise into a simulation of a phase locked loop; and

estimate jitter of the phase locked loop from the simulation,

wherein the representative power supply waveform is obtained from a simulation of a power supply, and

wherein the simulation of the power supply is performed using a first simulation tool and the simulation of the phase locked loop is performed using a second simulation tool.

31. (Original) The computer-readable medium of claim 23, wherein the representative power supply waveform comprises a noise waveform combined with a power supply waveform.

32. (Original) The computer-readable medium of claim 23, wherein the representative power supply waveform is dependent on at least one selected from the group consisting of temperature, voltage, frequency, and manufacturing process.

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(Original) The computer-readable medium of claim 23, wherein the simulation of the phase locked loop is dependent on at least one selected from the group

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consisting of temperature, voltage, frequency, and manufacturing process.
